

GOVERNMENT/INDUSTRY CHARTING FORUM
Instrument Procedures Group
October 25, 2005
HISTORY RECORD

FAA Control # 05-02-261
(Also Addresses Issue 03-02-248)

Subject: RNAV Substitution Within the NAS

Background/Discussion: During discussion of ACF-IPG Issue 03-02-248, which recommended authorization for GPS substitution for VOR as is currently allowed for NDB, it became apparent that a larger issue of RNAV substitution must be addressed. The expanded issue should address all phases of flight (departure, en route, and arrival) and specific avionics equipment requirements.

Recommendations: An ad hoc group, led by AFS-410, be formed to discuss total RNAV substitution within the NAS as well as associated avionics equipment requirements and air traffic control procedures.

Comments: This recommendation affects the AIM and Instrument Flying Handbook.

Submitted by: Vincent Chirasello

Organization: FAA/AFS-410

Phone: 202-385-4615

FAX: 202-385-4653

E-mail: vincent.chirasello@faa.gov

Date: October 25, 2005

INITIAL DISCUSSION (Meeting 05-02): New issue spawned from discussion of issue 03-02-248. Vinny Chirasello, AFS-410, briefed that during initial study of Issue 03-02-248 to assess substitution of GPS for VOR in a conventional missed approach segment, his office determined that the time was right to address all facets of RNAV substitution within the NAS. He recommended a separate issue be opened to address and track this expanded issue and the ACF-IPG agreed. It was noted that this larger issue study would need support from FAA's Flight Standards Service, Aircraft Certification Service, the Air Traffic Organization (including offices responsible for air traffic control procedures, instrument procedure development, and aeronautical charting), as well as the DOD. As a starting point, AFS-410 has scheduled a 3-day ad hoc meeting to begin discussion of the issue from November 8-10. The goal is to address various RNAV equipment requirements for conventional NAVAID substitution in all phases of flight (departure, en route, and arrival). The initial meeting will be government only and include FAA and DOD representation. Updates will be provided industry through the ACF; however, industry participation may be required at a later date. Ted Thompson, Jeppesen, asked the FAA to consider the applicability of clear, concise NAVAID and equipment requirement notes as a part of the substitution review. Ted also suggested the FAA consider work already accomplished on the subject in Europe. Mark Brown, NAVFIG, asked that the study consider obstacle containment areas.

ACTION: AFS-420.

MEETING 06-01: Vincent Chirasello, AFS-410, briefed that the FAA working group has met and begun developing a matrix for RNAV substitution. The PARC also has a working group addressing the issue. It is planned that the groups will merge and reach a harmonized position; however, an estimated completion date is dependent on the PARC. Kevin Comstock, ALPA, asked whether the matrix is private or available to industry. Vinnie responded that it was not mature enough to release to the public at this time.

ACTION: AFS-410.

MEETING 06-02: Robert (Rico) Carty, AFS-410, briefed that the issue has been addressed and guidance published in the Notices to Airmen Publication (NTAP). The guidance addresses all aspects of RNAV substitution and will be included in the February 2007 AIM update. Additionally, a re-write of AC 90-100, *U.S. Terminal and En Route Area Navigation (RNAV) Operations*, is targeted for publication in 2007. **ACTION:** AFS-410.

MEETING 07-01: Ernie Skiver, AFS-410 briefed that guidance addressing all aspects of RNAV substitution was published as a Graphic Notice in the NTAP and subsequently included in the February 2007 AIM update (paragraph 1-2-3). Additionally, a re-write of AC 90-100, *U.S. Terminal and En Route Area Navigation (RNAV) Operations*, is currently in coordination and will be released immediately following the RNAV final rule. Ernie recommended the issue be closed and the group concurred. **ISSUE CLOSED.**
